

TEST REPORT FOR FCC PART 15 B
For
Texas Instruments Incorporated
TI-Nspire CX Navigator Access Point
Model No.: TINAVAP3-2
Brand: TEXAS INSTRUMENTS

Prepared for

Texas Instruments Incorporated
12500 TI Boulevard Dallas, TX 75243-4136 USA

Prepared by

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Report Number : ACWE-F1305006
Date of Test : Apr.14~24, 2013
Date of Report : May 09, 2013

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TEST REPORT VERIFICATION

Applicant : Texas Instruments Incorporated
 Manufacturer : Inventec Appliances(Pudong) Corporation
 EUT Description : TI-Nspire CX Navigator Access Point
 (A) Model No. : TINAVAP3-2
 (B) Brand : TEXAS INSTRUMENTS
 (C) Power Supply : DC 5V (Supplied by USB port of Laptop)
 (D) Test Voltage : DC 5V

Applicable standards:

FCC 47 CFR Part 15 Subpart B/Oct. 2010 and CISPR 22/1997
 ANSI C63.4-2009
 ICES-003 Issue 5 Aug. 2012

Note: These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared with the requirements in section §15.107(a) and §15.109(a)(g) of FCC Part 15 regulation.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC limits.

This report applies to above tested sample only and which shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

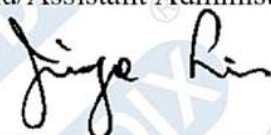
Date of Test : Apr.14~24, 2013

Date of Report : May 09, 2013

Prepared by :


 (Emma Hu/Assistant Administrator)

Reviewer :


 (Jingo Lin/Section Manager)

Approved & Authorized Signer :


 (Allen Wang/ Deputy General Manager)

1 SUMMARY OF STANDARDS AND RESULTS

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted Emission	FCC 47 CFR Part 15 Subpart B/ Oct. 2012	§15.107 (a) Class B	PASS
Radiated Emission	FCC 47 CFR Part 15 Subpart B/ Oct. 2012	§15.109 (a) (g) Class B	PASS

2 GENERAL INFORMATION

2.1 Description of Device (EUT)

Product : TI-Nspire CX Navigator Access Point
Model Number : TINAVAP3-2
Brand : ACWE-F1305006
Applicant : Texas Instruments Incorporated
12500 TI Boulevard Dallas, TX 75243-4136 USA
Manufacturer : Inventec Appliances(Pudong) Corporation
No. 789 Pu Xing Road, Shanghai, PRC
Date of Receipt of Sample : Apr.07, 2013
Date of Test : Apr.14~24, 2013

2.2 UUT's Configuration

Test UUT : UUT×1
I/O Ports : USB port×1
USB Cable : 60 inch×1
18 inch×1

2.3 Operating Condition of EUT

- 2.3.1 Set up the EUT as showed in respective block diagram of test setup.
- 2.3.2 Turn on the power of all equipment.
- 2.3.3 Driving software “TI-Nspire™ CAS Navigator™ Teacher Software V3.2.1.1228”, let EUT operate normal activity.

2.4 Tested Supporting System Details

2.4.1 TI-nspire CX CAS (NSC)

Manufacturer	:	TI
Brand	:	TEXAS INSTRUMENTS

2.4.2 TI-nspire CX Wireless Network Adapter v2

Manufacturer	:	TI
Brand	:	TEXAS INSTRUMENTS
Model No.	:	TINAVWNA2

2.4.3 Laptop Computer

Manufacturer	:	DELL
Model Number	:	PP26L
Serial Number	:	JX193A01
FCC ID	:	FCC By DoC
Power Cord	:	Unshielded, Detachable, 1.5 m
AC Adapter	:	M/N: LA65NS1-00 Brand: DELL Input: AC 100-240V, 50-60Hz, 1.5A Output: DC 19.5V,3.34A DC Cord: Unshielded, Undetachable, 2.0m, 1 ferrite core.

2.4.4 USB Mouse

Manufacturer	:	Logitech
Model Number	:	M-SBM96B
Serial Number	:	N/A
BSMI ID	:	T41126
Data Cable	:	Shielded, Undetachable, 1.5m

2.4.5 USB HDD

Manufacturer	:	SEAGATE
Model Number	:	SRD00F1
Serial Number	:	NA45HL11
Data Cable	:	Shielded, Detachable, 0.5m

2.4.6 Printer

Manufacturer	:	HP
Model Number	:	DESKJET3918
Serial Number	:	CN64S1N0SK
BSMI ID	:	R33001
USB Cable	:	Shielded, Detachable, 2.0m
AC Adapter	:	HP/090-4397 I/P: AC100-240V, 50-60Hz, 500mA, O/P: DC +32Vdc, 500mA max; +15Vdc, 530mA max AC Cord: Unshielded, Detachable, 1.8m DC Cord: Unshielded, Undetachable, 1.8m, 1 ferrite core

2.5 Description of Test Facility

Name of Firm	:	Audix Technology (Wujiang) Co., Ltd EMC Dept.
Site Location	:	No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	:	No. 1 10m semi-anechoic chamber Date of Validity: May. 22, 2015 FCC Registration No.: 252588 No. 1 conducted shielding enclosure
NVLAP Lab Code	:	200786-0 (NVLAP is a NATA accredited body under Mutual Recognition Agreement) Date of Validity: Sep.30, 2013

2.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Disturbance Measurement	0.15MHz~30MHz	± 2.36dB
At 10m Semi-Anechoic Chamber		
Radiated Disturbance Measurement	30MHz~1000MHz	± 3.06dB (Horizontal)
		± 3.10dB (Vertical)
Radiated Disturbance Measurement	Above 1GHz	± 4.14dB

Remark : Uncertainty = $ku_c(y)$

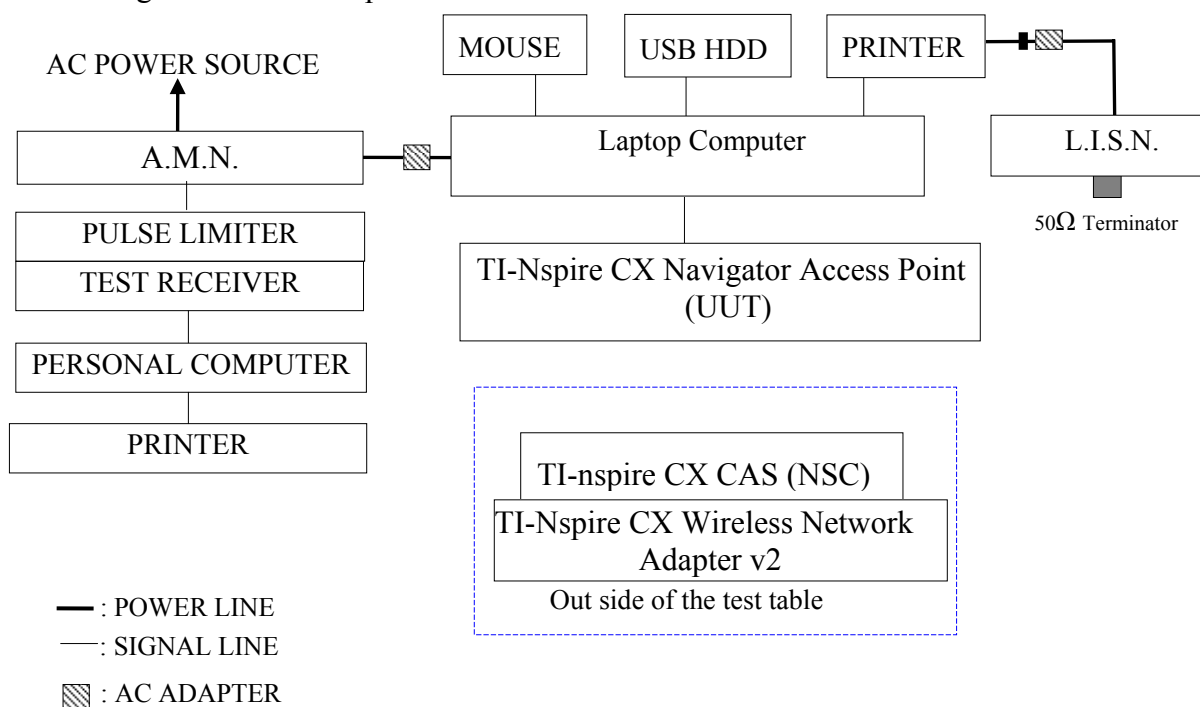
3 POWERLINE CONDUCTED EMISSION MEASUREMENT

3.1 Test Equipment

The following test equipments were used during the conducted emission measurement :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCI	100839	2011-01-04	2012-01-03
2.	A.M.N	R & S	ESH2-Z5	8129-164	2011-03-25	2012-03-23
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1793-3	2011-08-06	2012-08-05
4.	Pulse Limiter	R&S	ESH3-Z2	PA201220003	2011-08-06	2012-08-05
5.	50ohm Terminator	Tektronis	MS4630B	001-con	2011-03-25	2012-03-24
6.	RF Cable	Harbour Industries	RG400	003	2011-03-24	2012-03-23

3.2 Block Diagram of Test Setup



3.3 Power line Conducted Emission Limit (§15.107(a), Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 5MHz	79dBμV	66dBμV
5MHz ~ 30MHz	73BμV	60BμV

Remark 1. If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2. The tight limit applies at the band edges.

3.4 Test Procedure

The measuring process is according to ANSI C63.4 clause 12 and laboratory internal procedure TKC-301-010.

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meters height above the ground plane, and 0.4 meters far away from the vertical plane. The EUT was powered by AC mains through Artificial Mains Network (A.M.N), other peripheral devices were powered by AC mains through the second Line Impedance Stabilization Network (L.I.S.N). For the measurement, the A.M.N measuring port was terminated by 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω resistive load. All measurements were done on the phase and neutral line of the EUT's power cord. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set to 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector; the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is unnecessary).

The emission level is calculated automatically by the test system which uses the following equation :

Emission level (dBμV) = Meter-Reading (dBμV) + A.M.N factor (dB) + Cable loss (dB).
(Cable loss include pulse limiter loss)

3.5 Power line Conducted Emission Measurement Results

PASSED

(All the emissions not reported below are too low against the prescribed limits.)

The details of test modes and reference test data are as follows :

Test Date: Apr.24, 2013 Temperature : 20.6°C Humidity : 42%

Mode	Test Condition	USB Cable	Reference Test Data No.	
			Neutral	Line
1	Test Configuration 1	60 inch	※# 2	# 1
2	Test Configuration 2	18 inch	# 6	# 5
3	Test Configuration 3	60 inch	# 10	# 9
4	Test Configuration 4	18 inch	# 14	# 13

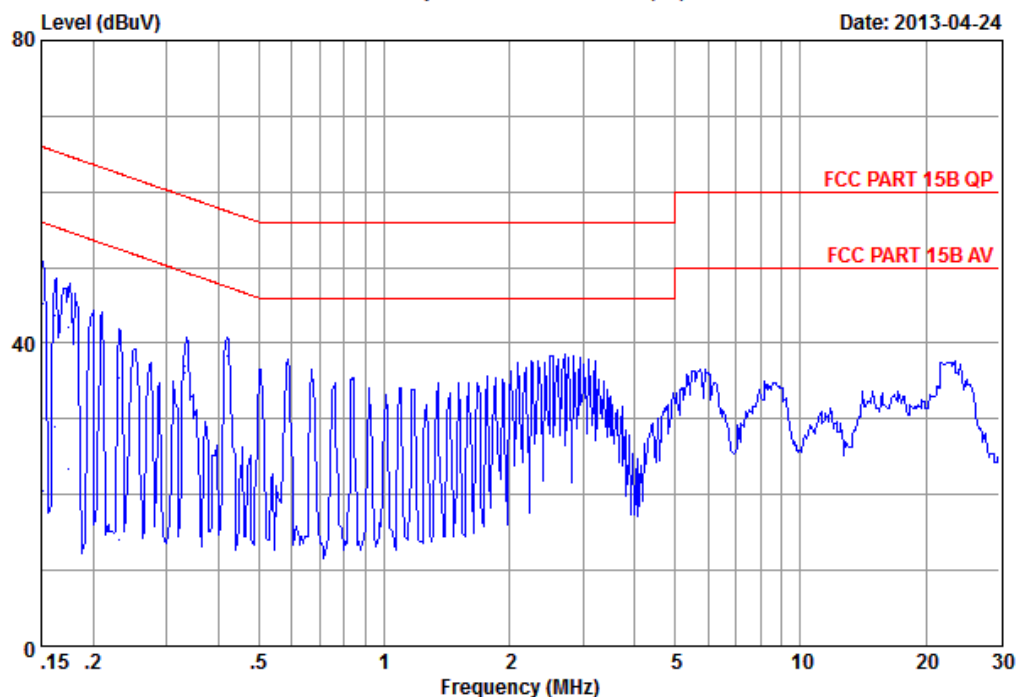
NOTE 1 – ‘※’ means the worst test mode.

NOTE 2 – The worst emission is detected at 0.42 MHz with emission level of 38.35 dB (μV) and with AV detector (Limit is 47.47 dB (μV)), when the Neutral of the EUT is connected to AMN.



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Data: 2 File: F:\2013Test Data\Report\04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 2
 AMN/LISN : ESH2-Z5-1205 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*C&42%/ESCI Engineer : KM Tong
 EUT : TI-inspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration1
 Memo :

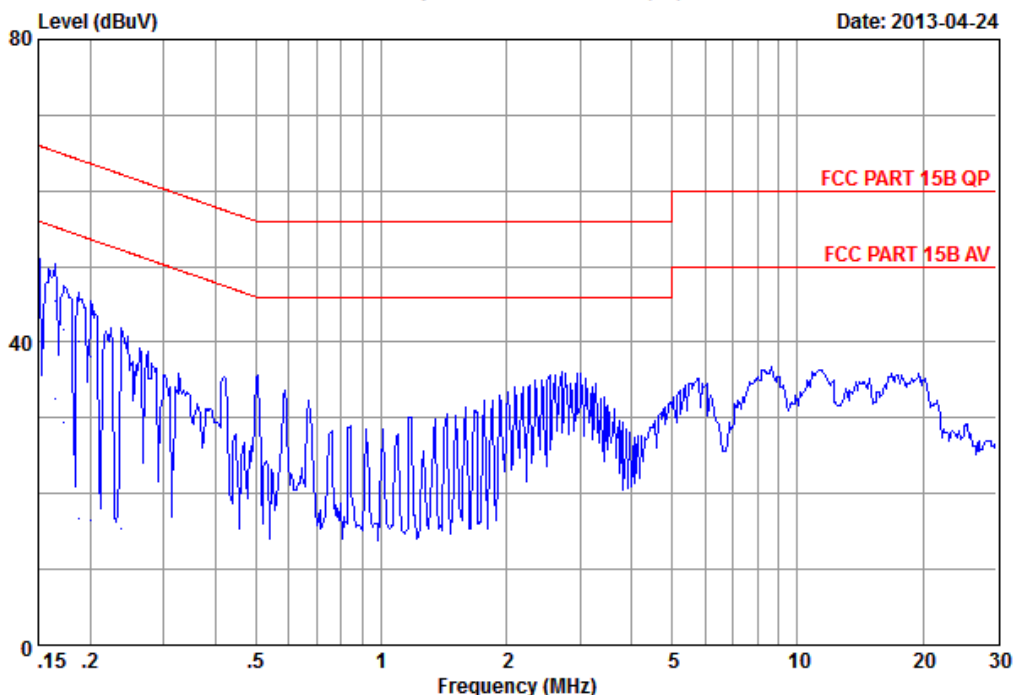
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.17	9.86	10.51	20.54	55.94	35.40	Average
2	0.15	0.17	9.86	35.11	45.14	65.94	20.80	QP
3	0.16	0.17	9.86	33.61	43.64	65.36	21.72	QP
4	0.16	0.17	9.86	19.01	29.04	55.36	26.32	Average
5	0.18	0.17	9.87	32.00	42.04	64.72	22.68	QP
6	0.18	0.17	9.87	13.40	23.44	54.72	31.28	Average
7	0.23	0.17	9.87	4.10	14.14	52.41	38.27	Average
8	0.23	0.17	9.87	25.30	35.34	62.41	27.07	QP
9	0.33	0.18	9.86	26.10	36.14	49.38	13.24	Average
10	0.33	0.18	9.86	27.00	37.04	59.38	22.34	QP
11	0.42	0.19	9.87	28.19	38.25	57.47	19.22	QP
12	0.42	0.19	9.87	28.29	38.35	47.47	9.12	Average

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 1 File: F:\2013Test Data\Report04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 1
 AMN/LISN : ESH2-Z5-1205 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*42%/ESCI Engineer : KM Tong
 EUT : TI-inspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration1
 Memo :

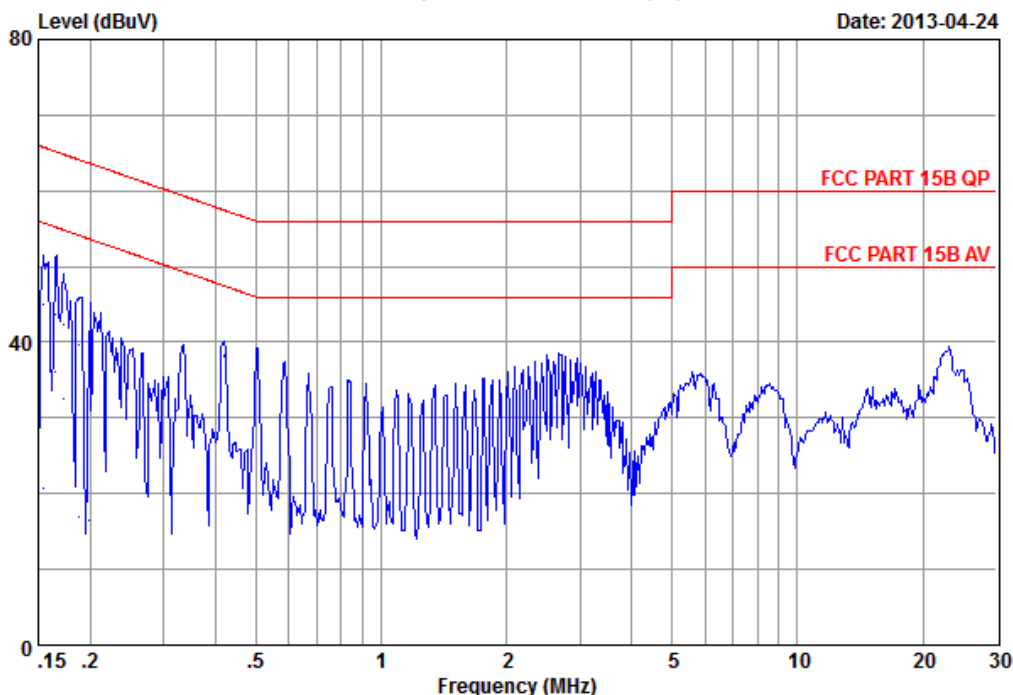
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.23	9.86	35.10	45.19	66.00	20.81	QP
2	0.15	0.23	9.86	10.20	20.29	56.00	35.71	Average
3	0.17	0.23	9.86	35.31	45.40	65.21	19.81	QP
4	0.17	0.23	9.86	22.41	32.50	55.21	22.71	Average
5	0.17	0.23	9.87	31.60	41.70	64.82	23.12	QP
6	0.17	0.23	9.87	19.40	29.50	54.82	25.32	Average
7	0.19	0.24	9.87	30.00	40.11	64.17	24.06	QP
8	0.19	0.24	9.87	6.50	16.61	54.17	37.56	Average
9	0.20	0.24	9.87	27.90	38.01	63.57	25.56	QP
10	0.20	0.24	9.87	6.30	16.41	53.57	37.16	Average
11	0.24	0.25	9.87	24.40	34.52	62.20	27.68	QP
12	0.24	0.25	9.87	5.20	15.32	52.20	36.88	Average

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 6 File: F:\2013Test Data\Report04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 6
 AMN/LISN : ESH2-Z5-1205 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*42%/ESCI Engineer : KM Tong
 EUT : TI-inspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration2
 Memo :

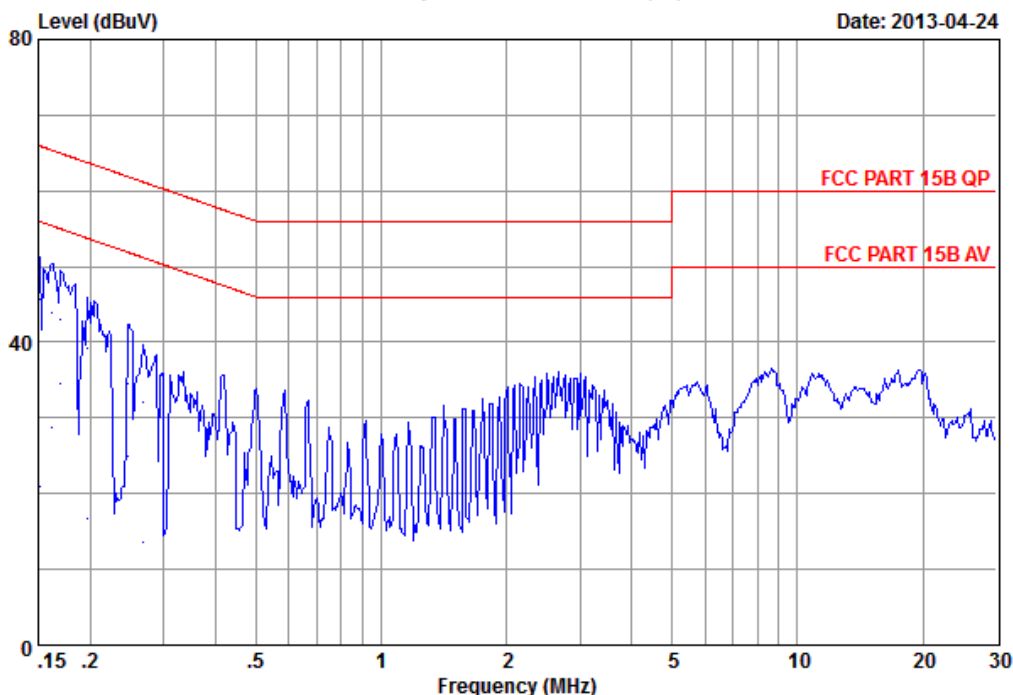
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.17	9.86	34.91	44.94	65.78	20.84	QP
2	0.15	0.17	9.86	10.71	20.74	55.78	35.04	Average
3	0.17	0.17	9.86	33.61	43.64	65.21	21.57	QP
4	0.17	0.17	9.86	26.11	36.14	55.21	19.07	Average
5	0.17	0.17	9.87	32.20	42.24	64.86	22.62	QP
6	0.17	0.17	9.87	22.50	32.54	54.86	22.32	Average
7	0.19	0.17	9.87	29.70	39.74	64.12	24.38	QP
8	0.19	0.17	9.87	6.80	16.84	54.12	37.28	Average
9	0.20	0.17	9.87	6.50	16.54	53.65	37.11	Average
10	0.20	0.17	9.87	28.70	38.74	63.65	24.91	QP
11	0.42	0.19	9.87	28.09	38.15	47.47	9.32	Average
12	0.42	0.19	9.87	28.29	38.35	57.47	19.12	QP

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 5 File: F:\2013Test Data\Report04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 5
 AMN/LISN : ESH2-Z5-1205 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*42%/ESCI Engineer : KM Tong
 EUT : TI-inspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration2
 Memo :

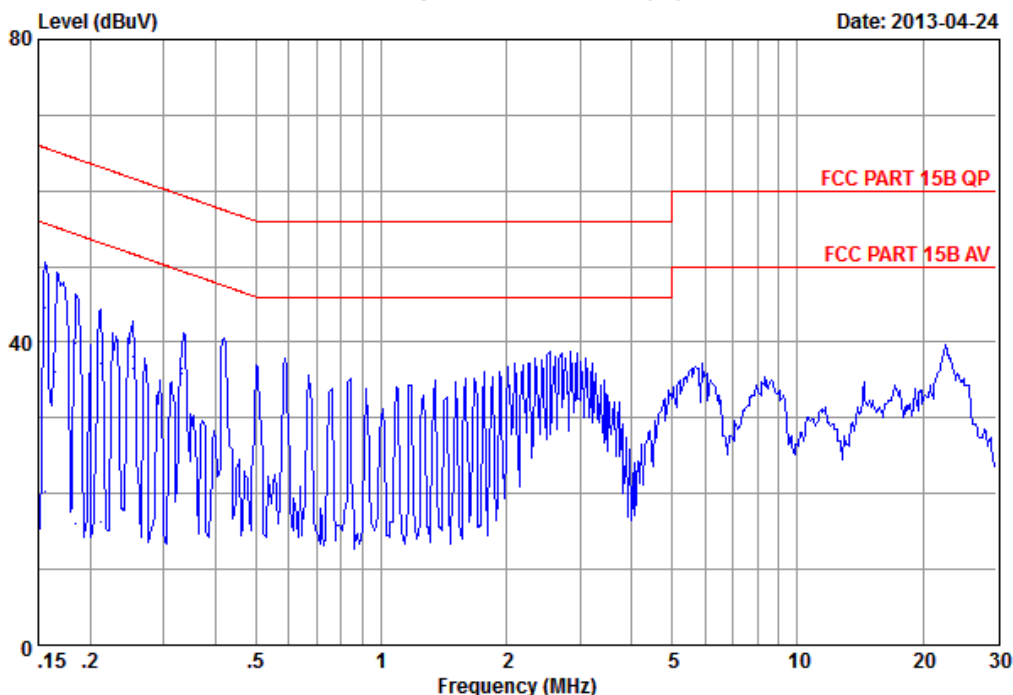
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.23	9.86	10.90	20.99	55.94	34.95	Average
2	0.15	0.23	9.86	35.70	45.79	65.94	20.15	QP
3	0.16	0.23	9.86	33.80	43.89	65.36	21.47	QP
4	0.16	0.23	9.86	18.60	28.69	55.36	26.67	Average
5	0.17	0.23	9.87	33.00	43.10	64.96	21.86	QP
6	0.17	0.23	9.87	24.50	34.60	54.96	20.36	Average
7	0.20	0.24	9.87	6.50	16.61	53.78	37.17	Average
8	0.20	0.24	9.87	29.00	39.11	63.78	24.67	QP
9	0.25	0.26	9.86	14.80	24.92	51.89	26.97	Average
10	0.25	0.26	9.86	24.50	34.62	61.89	27.27	QP
11	0.27	0.26	9.86	22.01	32.13	61.18	29.05	QP
12	0.27	0.26	9.86	3.41	13.53	51.18	37.65	Average

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 10 File: F:\2013Test Data\Report04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 10
 AMN/LISN : ESH2-Z5-1205 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*42%/ESCI Engineer : KM Tong
 EUT : TI-inspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration3
 Memo :

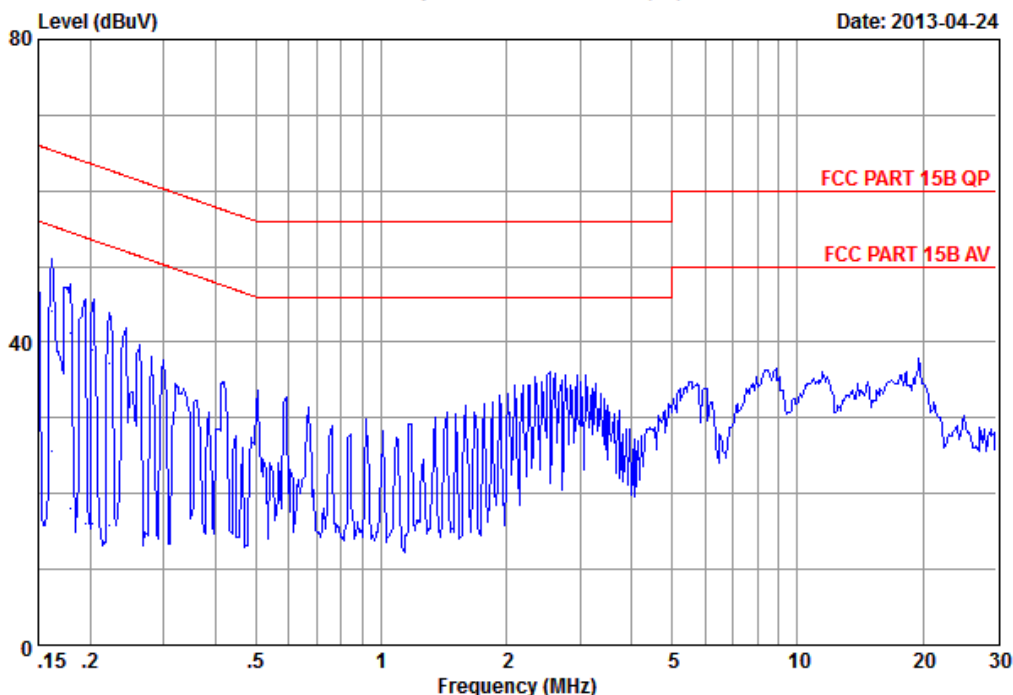
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.17	9.86	34.61	44.64	65.73	21.09	QP
2	0.16	0.17	9.86	10.21	20.24	55.73	35.49	Average
3	0.17	0.17	9.86	33.31	43.34	65.21	21.87	QP
4	0.17	0.17	9.86	26.11	36.14	55.21	19.07	Average
5	0.19	0.17	9.87	29.80	39.84	64.26	24.42	QP
6	0.19	0.17	9.87	6.10	16.14	54.26	38.12	Average
7	0.21	0.17	9.87	27.20	37.24	63.13	25.89	QP
8	0.21	0.17	9.87	6.20	16.24	53.13	36.89	Average
9	0.25	0.18	9.86	28.10	38.14	61.69	23.55	QP
10	0.25	0.18	9.86	26.60	36.64	51.69	15.05	Average
11	0.33	0.18	9.86	26.50	36.54	59.38	22.84	QP
12	0.33	0.18	9.86	25.80	35.84	49.38	13.54	Average

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 9 File: F:\2013Test Data\Report04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 9
 AMN/LISN : ESH2-Z5-1205 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*42%/ESCI Engineer : KM Tong
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration3
 Memo :

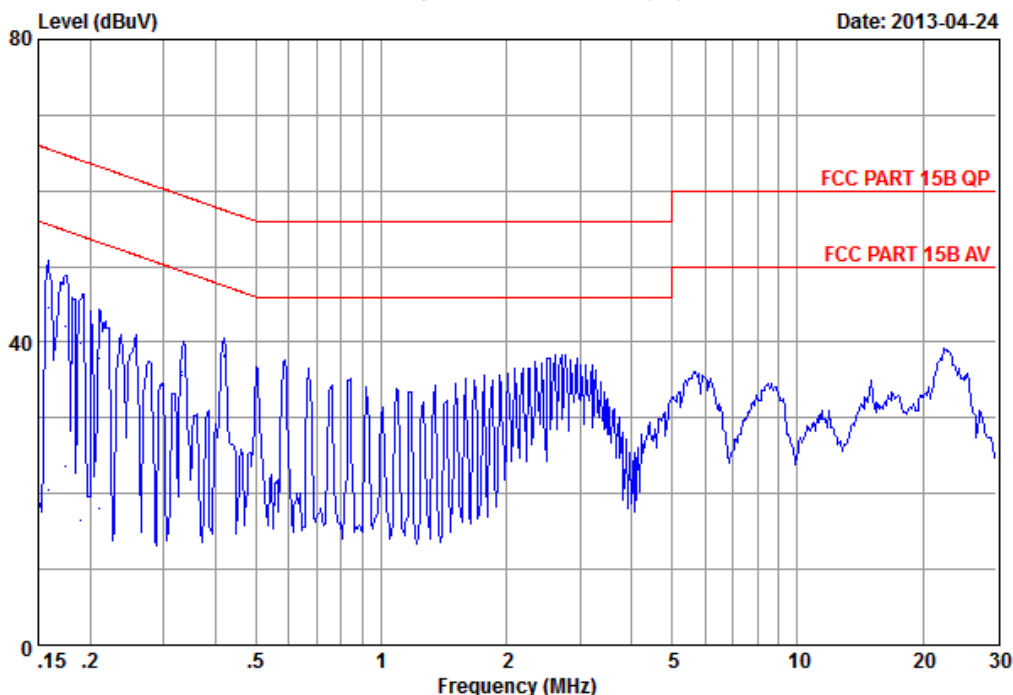
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.23	9.86	35.80	45.89	66.00	20.11	QP
2	0.15	0.23	9.86	11.00	21.09	56.00	34.91	Average
3	0.16	0.23	9.86	34.00	44.09	65.41	21.32	QP
4	0.16	0.23	9.86	15.60	25.69	55.41	29.72	Average
5	0.18	0.24	9.87	7.89	18.00	54.53	36.53	Average
6	0.18	0.24	9.87	31.19	41.30	64.53	23.23	QP
7	0.20	0.24	9.87	29.10	39.21	63.82	24.61	QP
8	0.20	0.24	9.87	5.90	16.01	53.82	37.81	Average
9	0.20	0.24	9.87	28.90	39.01	63.49	24.48	QP
10	0.20	0.24	9.87	6.00	16.11	53.49	37.38	Average
11	0.22	0.25	9.87	27.00	37.12	62.74	25.62	QP
12	0.22	0.25	9.87	5.60	15.72	52.74	37.02	Average

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 14 File: F:\2013Test Data\Report04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 14
 AMN/LISN : ESH2-Z5-1205 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*42%/ESCI Engineer : KM Tong
 EUT : TI-inspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration4
 Memo :

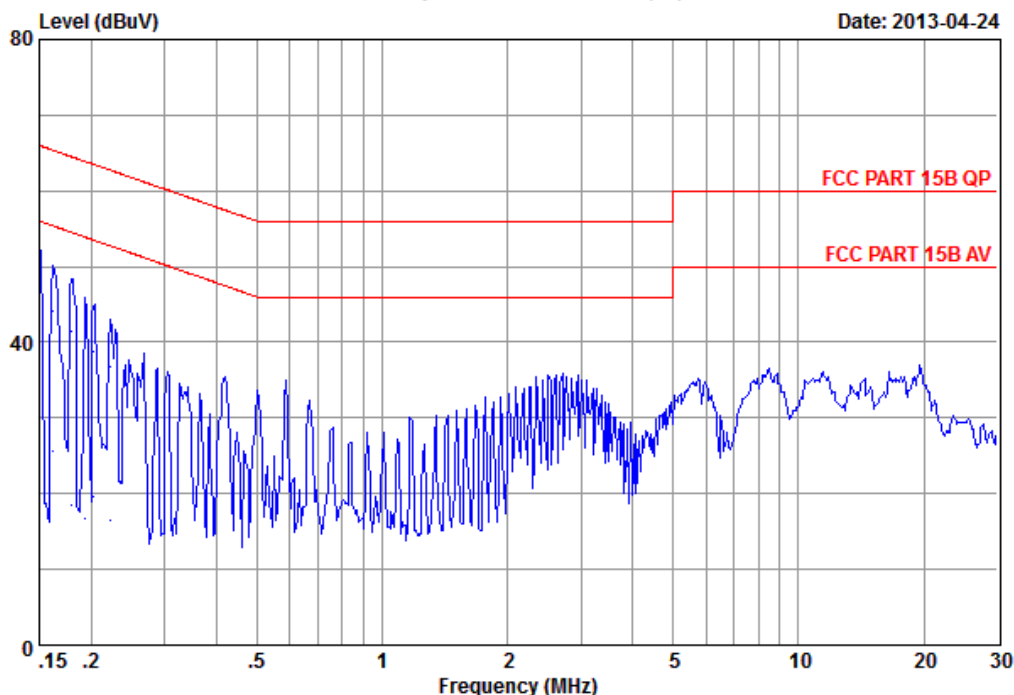
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.17	9.86	34.51	44.54	65.57	21.03	QP
2	0.16	0.17	9.86	10.51	20.54	55.57	35.03	Average
3	0.18	0.17	9.87	13.50	23.54	54.72	31.18	Average
4	0.18	0.17	9.87	32.00	42.04	64.72	22.68	QP
5	0.19	0.17	9.87	29.90	39.94	64.04	24.10	QP
6	0.19	0.17	9.87	6.50	16.54	54.04	37.50	Average
7	0.21	0.17	9.87	27.80	37.84	63.21	25.37	QP
8	0.21	0.17	9.87	8.00	18.04	53.21	35.17	Average
9	0.33	0.18	9.86	25.60	35.64	49.38	13.74	Average
10	0.33	0.18	9.86	26.10	36.14	59.38	23.24	QP
11	0.42	0.19	9.87	28.19	38.25	57.47	19.22	QP
12	0.42	0.19	9.87	27.99	38.05	47.47	9.42	Average

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 13 File: F:\2013Test Data\Report04\G1304009.EM6 (24)



Site no. : No.1 Conducted shielding Enclosure Data no. : 13
 AMN/LISN : ESH2-Z5-1205 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 20.6*42%/ESCI Engineer : KM Tong
 EUT : TI-inspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test mode : Configuration4
 Memo :

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.23	9.86	35.70	45.79	66.00	20.21	QP
2	0.15	0.23	9.86	11.10	21.19	56.00	34.81	Average
3	0.16	0.23	9.86	34.00	44.09	65.41	21.32	QP
4	0.16	0.23	9.86	15.60	25.69	55.41	29.72	Average
5	0.18	0.24	9.87	31.39	41.50	64.53	23.03	QP
6	0.18	0.24	9.87	8.39	18.50	54.53	36.03	Average
7	0.19	0.24	9.87	29.50	39.61	63.91	24.30	QP
8	0.19	0.24	9.87	6.60	16.71	53.91	37.20	Average
9	0.20	0.24	9.87	28.70	38.81	63.49	24.68	QP
10	0.20	0.24	9.87	9.60	19.71	53.49	33.78	Average
11	0.22	0.25	9.87	26.70	36.82	62.74	25.92	QP
12	0.22	0.25	9.87	6.30	16.42	52.74	36.32	Average

- 1.Emission Level= AMN Factor + Cable Loss + Reading.
- 2.If the average limit is met when using a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4 RADIATED DISTURBANCE MEASUREMENT

4.1 Test Equipment

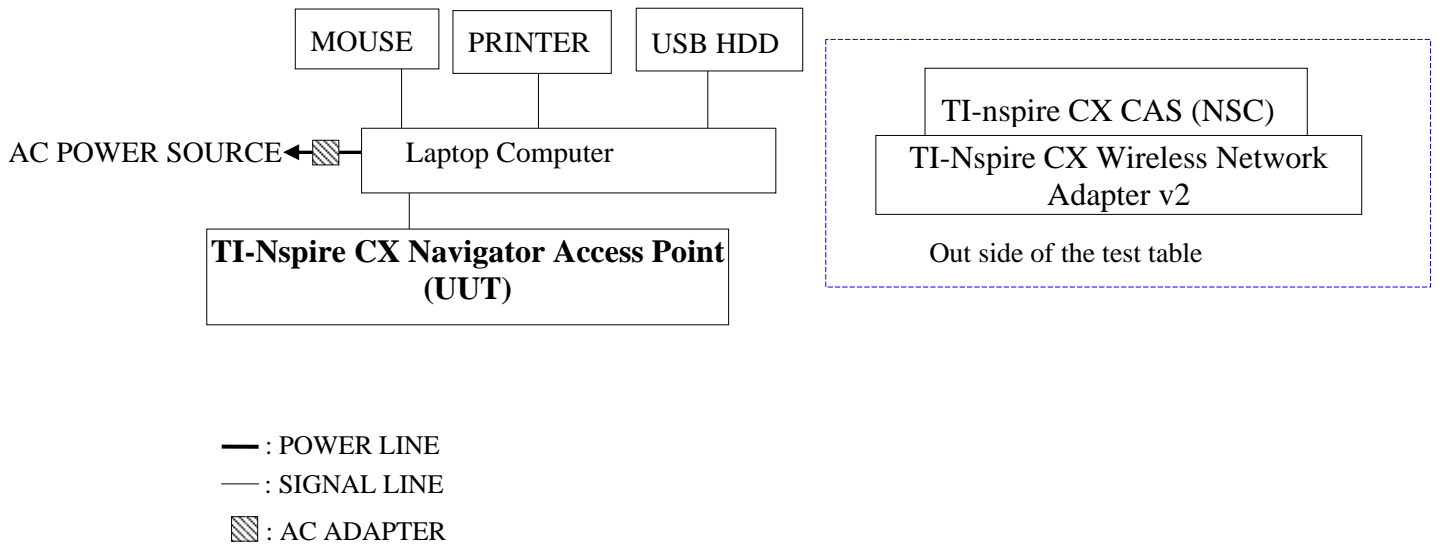
The following test equipment was used during the radiated emission measurement :

(At 10m Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY45107028	2013-01-05	2014-01-04
2.	Spectrum Analyzer	Agilent	E7405A	MY45107030	2013-01-05	2014-01-04
3.	Spectrum Analyzer	Agilent	E4447A	MY45300134	2013-01-05	2014-01-04
4.	Pre-Amplifier	Agilent	8447D	2944A10923	2012-08-14	2013-08-13
5.	Pre-Amplifier	Agilent	8447D	2944A10922	2012-08-14	2013-08-13
6.	Bi-log Antenna (Horizontal)	Schaffner	CBL6112D	22253	2012-05-04	2013-05-03
7.	Bi-log Antenna (Vertical)	Schaffner	CBL6112D	22251	2012-04-25	2013-04-24
8.	Horn Antenna	EMCO	3115	00062593	2012-05-04	2013-05-03
9.	Test Receiver	R&S	ESCI	100351	2013-01-05	2014-01-04
10.	50Ω Coaxial Switch # 1	ANRITSU	MP59B	6200547935	2012-03-24	2013-03-23
11.	50Ω Coaxial Switch # 2	ANRITSU	MP59B	6200547937	2012-03-24	2013-03-23
12.	50Ω Coaxial Switch # 3	ANRITSU	MP59B	6200547934	2012-03-24	2013-03-23
13.	Microwave amplifier	Agilent	8449B	3008A02234	2013-01-05	2014-01-04
14.	RF Cable	Yuhang	CSYH	001	2012-08-14	2013-08-13
15.	RF Cable	Yuhang	CSYH	002	2012-08-14	2013-08-13
16.	RF Cable	Yuhang	CSYH	003	2012-08-14	2013-08-13
17.	RF Cable	Yuhang	CSYH	004	2012-08-14	2013-08-13
18.	RF Cable	Yuhang	CSYH	005	2012-08-14	2013-08-13
19.	RF Cable	Yuhang	CSYH	006	2012-08-14	2013-08-13
20.	RF Cable	Yuhang	CSYH	008	2012-08-14	2013-08-13
21.	RF Cable	Yuhang	CSYH	009	2012-08-14	2013-08-13
22.	RF Cable	Huber+Suhner	SUCOFLEX 102	28571	2012-08-14	2013-08-13
23.	RF Cable	Huber+Suhner	SUCOFLEX 102	28579	2012-08-14	2013-08-13

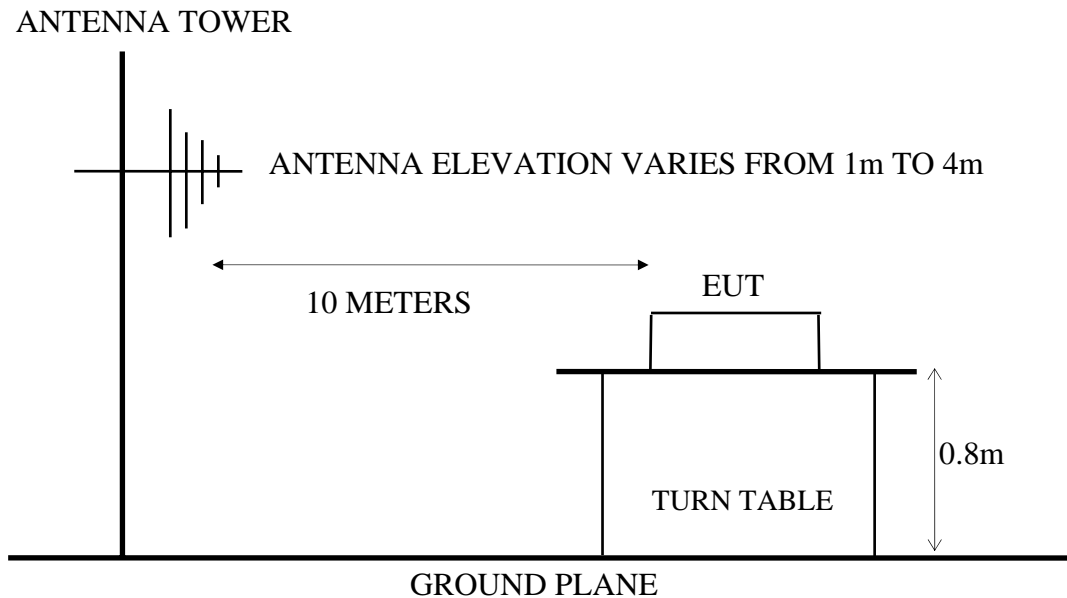
4.2 Block Diagram of Test Setup

4.2.1 Block Diagram of connection between EUT and simulators



4.2.2 Test Setup at No. 1 10m Semi-Anechoic Chamber Setup Diagram (Test distance: 10m)

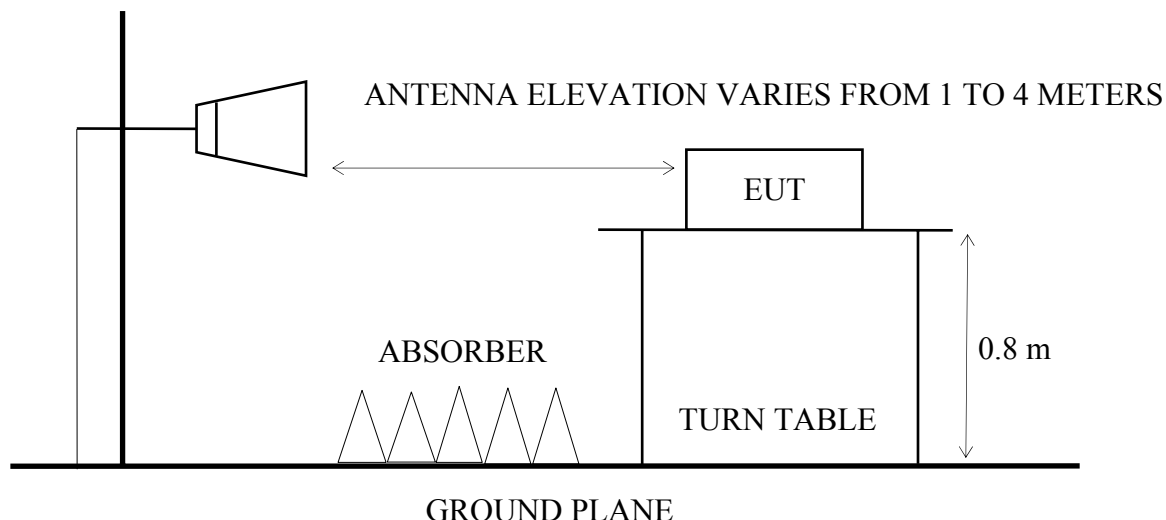
For 30MHz~1000MHz



4.2.3 Test Setup at No. 1 10m Semi-Anechoic Chamber Setup Diagram

For 1000MHz~8000MHz

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4.3 Radiation Emission Limit

(§15.109(a) (g), Class B)

All emanations from receiver shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS	
		($\mu\text{V}/\text{m}$)	($\text{dB}\mu\text{V}/\text{m}$)
30 ~ 88	10	90	39
88~216	10	150	43.5
216~960	10	210	46.4
Above 960	10	300	49.5
Above 1000	3	1000	60 (Average)
			80 (Peak)

Notes : (1) Emission level($\text{dB}\mu\text{V}/\text{m}$)= $20 \log$ Emission level($\mu\text{V}/\text{m}$).

(2) The tight limit applies at the edge between two frequency bands.

(3) The 3m limit applies relation: $L2 = L1 (d1/d2)$

4.4 Test Procedure

The measuring process is according to ANSI C63.4 clause 12 and laboratory internal procedure TKC-301-011.

In the radiated emission measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meters above the ground plane. Measurement distance between EUT and receiving antennas was set at 3 meters. The specified distance is the distance between the antennas and the closest periphery of EUT. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antenna was used for both horizontal and vertical polarization detection for above 1GHz. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

- RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
- RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz
- RBW (1 MHz), VBW (10 Hz) for Average detector above 1GHz

The required frequency band (30 MHz ~ 12000 MHz) was pre-scanned with peak detector; all final measurements were measured with quasi-peak detector below 1GHz, measured with average detector and peak detector above 1GHz., if necessary which is against note 1 of section 8.3.1.2 of ANSI C63.4-2003 standard.

The emission level is calculated automatically by the test system which uses the following equation :

1. For 30-1000MHz measurement:

$$\text{Emission Level (dB}\mu\text{V/m)} = \text{Meter-Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)}$$

2. For Above 1GHz measurement:

$$\text{Emission Level (dB}\mu\text{V/m)} = \text{Meter-Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Pre-amplifier factor (dB)}$$

4.5 Radiated Emission Measurement Results

PASSED.

(All the emissions not reported below are too low against the prescribed limits.)

4.5.1 Frequency Range: 30MHz~1GHz

The details of test modes and reference test data are as follows:

Test Date : Apr.14, 2013 Temperature : 22°C Humidity : 44%

Item	Test Condition	USB Cable	Reference Test Data No.	
			Horizontal	Vertical
※1	Test Configuration 1	60 inch	# 33	※# 34
2	Test Configuration 2	18 inch	※# 35	# 36
3	Test Configuration 3	60 inch	# 37	# 38
4	Test Configuration 4	18 inch	# 39	# 40

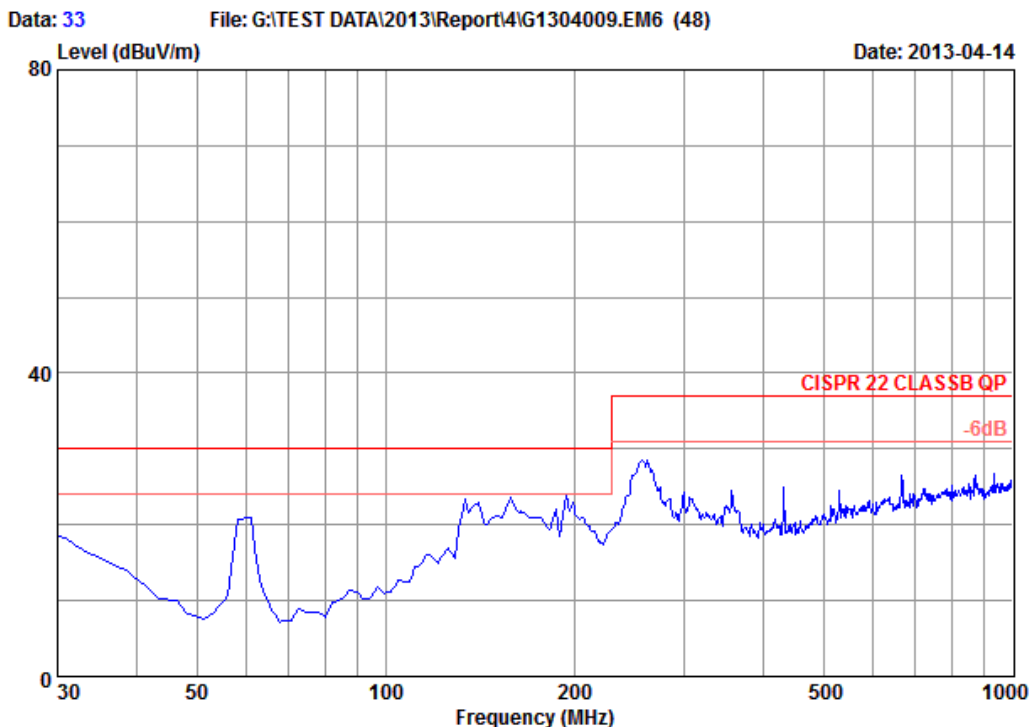
NOTE 1 - '※' means the worst test mode.

NOTE 2 - 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 3 - The worst emission at horizontal polarization was detected at 198.78 MHz with emission level of 25.41 dB μ V/m (limit is 30.00 dB μ V/m), when the antenna was 3.0 m height and the turntable was at 215°. The worst emission at vertical polarization was detected at 133.79 MHz with emission level of 26.48 dB μ V/m (limit is 30.00 dB μ V/m), when the antenna was 1.0 m height and the turntable was at 50°.



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Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 33
 Dis./Ant. : 10m 6112D(22253)-1206-H Ant.pol : HORIZONTAL
 Env./Ins. : 22.0*C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration1
 Memo :

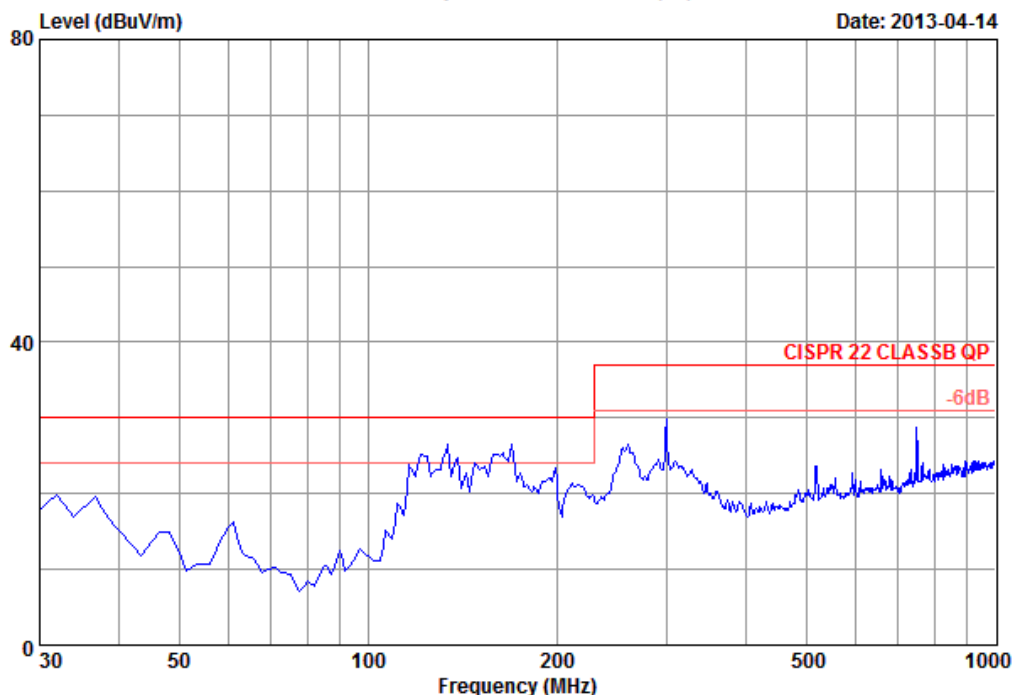
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	61.04	6.12	1.08	13.79	20.99	30.00	9.01	QP
2	133.79	11.91	1.65	9.87	23.43	30.00	6.57	QP
3	140.58	12.30	1.67	8.90	22.87	30.00	7.13	QP
4	158.04	10.24	1.82	11.53	23.59	30.00	6.41	QP
5	193.93	9.40	2.02	12.42	23.84	30.00	6.16	QP
6	256.98	13.27	2.33	12.99	28.59	37.00	8.41	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported



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Data: 34 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 34
 Dis./Ant. : 10m 6112D(22252)0416 V Ant.pol : VERTICAL
 Env./Ins. : 22.0°C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration1
 Memo :

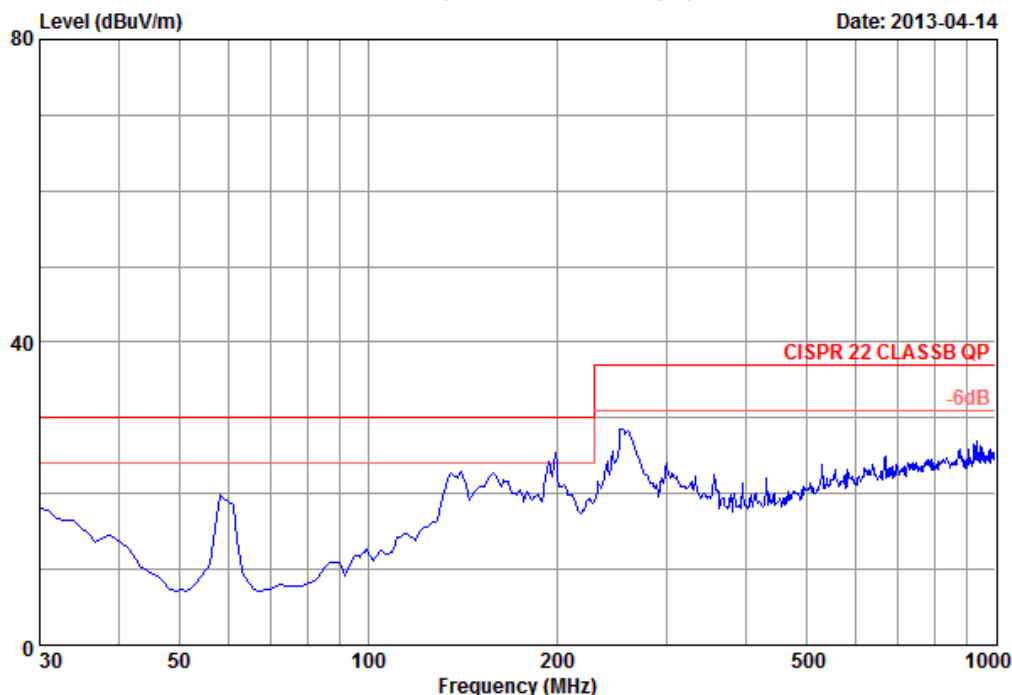
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	122.15	11.80	1.26	12.04	25.10	30.00	4.90	QP
2	133.79	11.40	1.28	13.80	26.48	30.00	3.52	QP
3	163.86	10.50	1.46	13.40	25.36	30.00	4.64	QP
4	169.68	9.80	1.49	15.18	26.47	30.00	3.53	QP
5	298.69	13.20	2.23	14.36	29.79	37.00	7.21	QP
6	749.74	19.80	3.38	5.56	28.74	37.00	8.26	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported



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Data: 35 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 35
 Dis./Ant. : 10m 6112D(22253)-1206-H Ant.pol : HORIZONTAL
 Env./Ins. : 22.0°C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration2
 Memo :

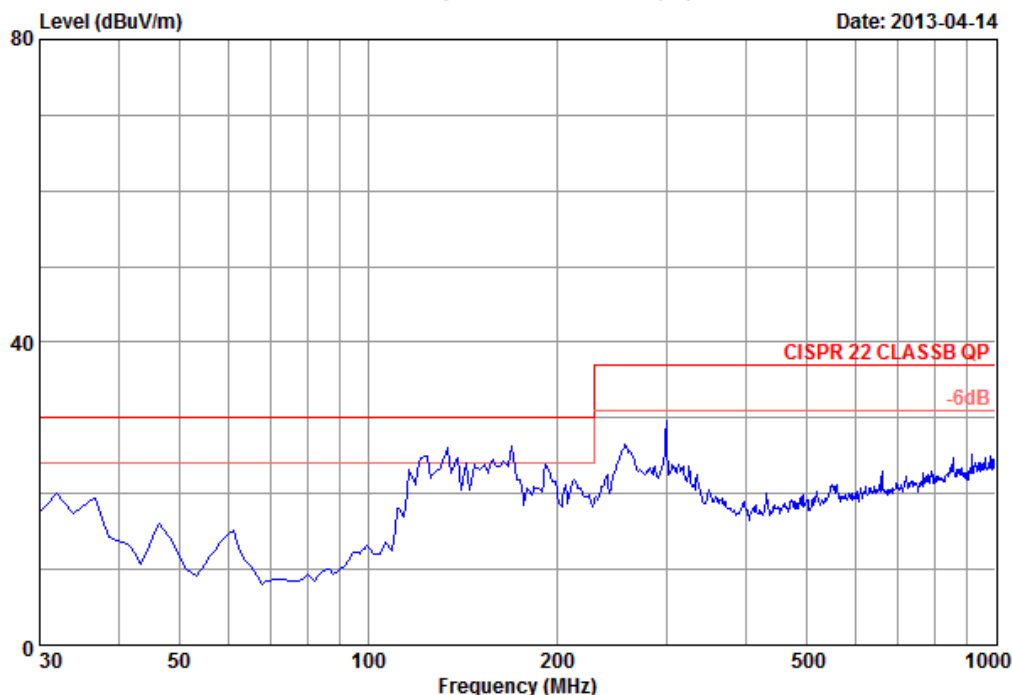
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	58.13	6.38	1.00	12.39	19.77	30.00	10.23	QP
2	140.58	12.30	1.67	9.06	23.03	30.00	6.97	QP
3	158.04	10.24	1.82	10.74	22.80	30.00	7.20	QP
4	193.93	9.40	2.02	12.87	24.29	30.00	5.71	QP
5	198.78	9.43	2.01	13.97	25.41	30.00	4.59	QP
6	255.04	13.20	2.34	13.06	28.60	37.00	8.40	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported



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Data: 36 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 36
 Dis./Ant. : 10m 6112D(22252)0416 V Ant.pol : VERTICAL
 Env./Ins. : 22.0°C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration2
 Memo :

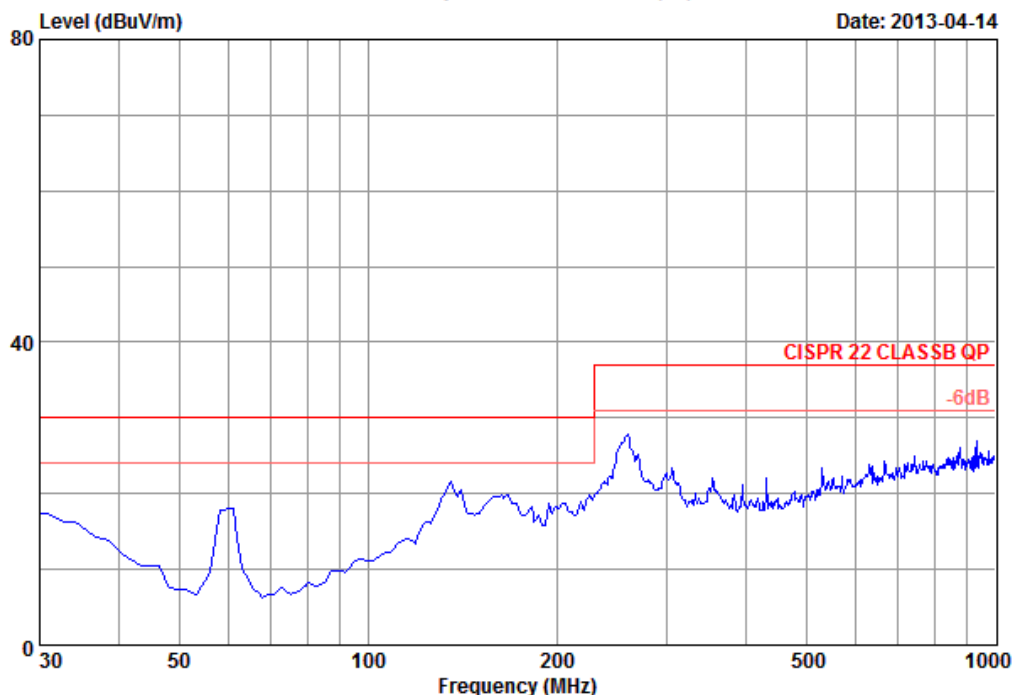
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	124.09	11.80	1.26	11.89	24.95	30.00	5.05	QP
2	133.79	11.40	1.28	13.41	26.09	30.00	3.91	QP
3	158.04	9.80	1.43	13.38	24.61	30.00	5.39	QP
4	169.68	9.80	1.49	14.92	26.21	30.00	3.79	QP
5	191.99	9.20	1.56	13.19	23.95	30.00	6.05	QP
6	298.69	13.20	2.23	14.26	29.69	37.00	7.31	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported



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Data: 37 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 37
 Dis./Ant. : 10m 6112D(22253)-1206-H Ant.pol : HORIZONTAL
 Env./Ins. : 22.0°C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration3
 Memo :

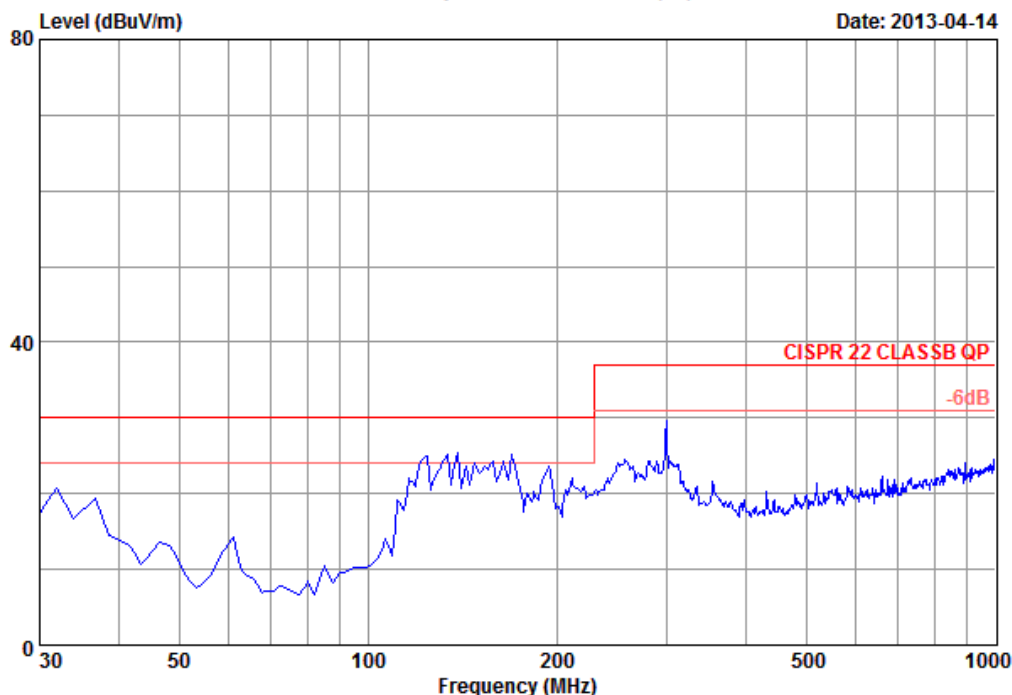
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	61.04	6.12	1.08	10.77	17.97	30.00	12.03	QP
2	135.73	11.88	1.65	8.04	21.57	30.00	8.43	QP
3	167.74	9.84	1.86	8.23	19.93	30.00	10.07	QP
4	259.89	13.50	2.37	12.07	27.94	37.00	9.06	QP
5	664.38	19.55	3.90	0.76	24.21	37.00	12.79	QP
6	877.78	20.87	4.59	0.55	26.01	37.00	10.99	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported



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Data: 38 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 38
 Dis./Ant. : 10m 6112D(22252)0416 V Ant.pol : VERTICAL
 Env./Ins. : 22.0°C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration3
 Memo :

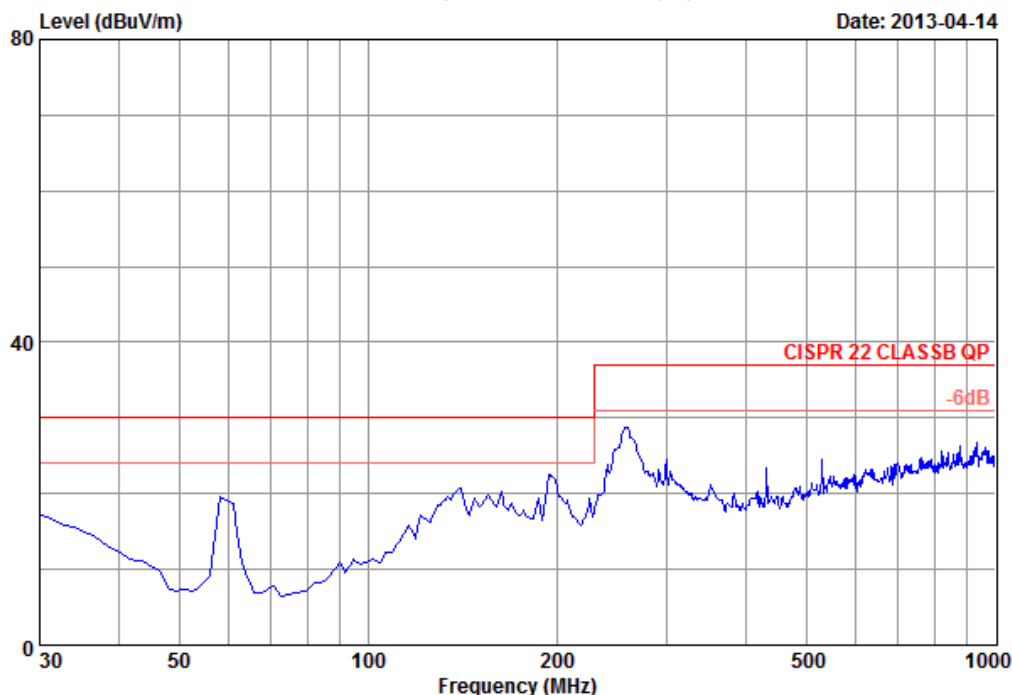
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	124.09	11.80	1.26	11.85	24.91	30.00	5.09	QP
2	133.79	11.40	1.28	12.54	25.22	30.00	4.78	QP
3	158.04	9.80	1.43	13.01	24.24	30.00	5.76	QP
4	169.68	9.80	1.49	13.84	25.13	30.00	4.87	QP
5	193.93	9.30	1.60	12.81	23.71	30.00	6.29	QP
6	298.69	13.20	2.23	14.23	29.66	37.00	7.34	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported



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Data: 39 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 39
 Dis./Ant. : 10m 6112D(22253)-1206-H Ant.pol : HORIZONTAL
 Env./Ins. : 22.0°C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration4
 Memo :

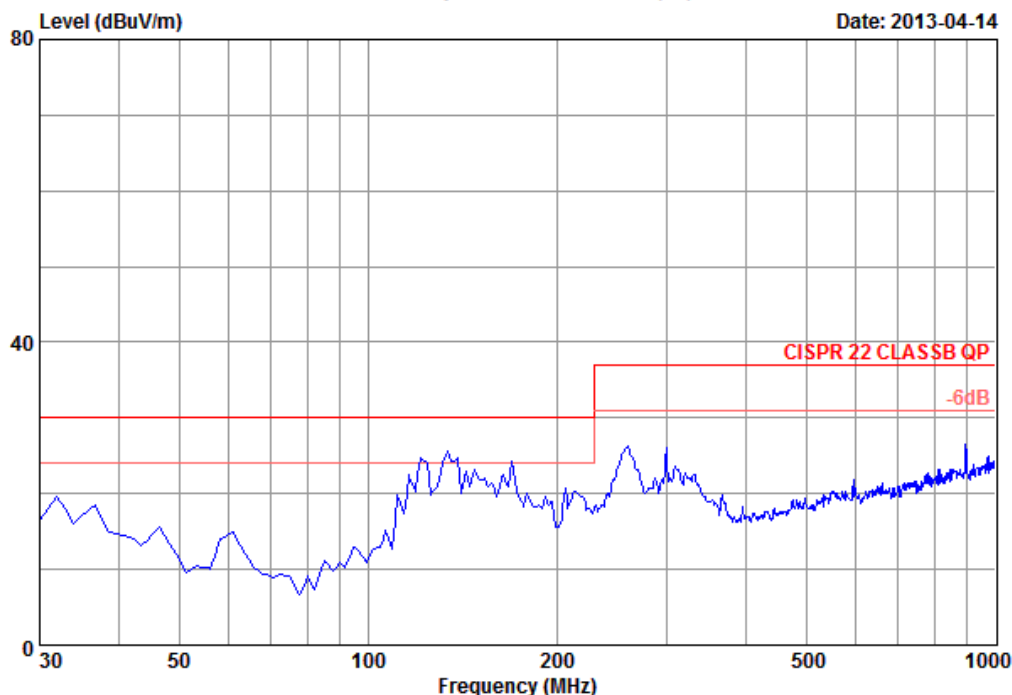
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	58.13	6.38	1.00	12.29	19.67	30.00	10.33	QP
2	140.58	12.30	1.67	6.74	20.71	30.00	9.29	QP
3	162.89	10.03	1.86	8.33	20.22	30.00	9.78	QP
4	193.93	9.40	2.02	11.05	22.47	30.00	7.53	QP
5	259.89	13.50	2.37	12.87	28.74	37.00	8.26	QP
6	877.78	20.87	4.59	0.73	26.19	37.00	10.81	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported



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Data: 40 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 40
 Dis./Ant. : 10m 6112D(22252)0416 V Ant.pol : VERTICAL
 Env./Ins. : 22.0°C 44%/ESCI Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating: 120Vac/60Hz
 Test Mode : Configuration4
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	121.18	11.80	1.22	11.74	24.76	30.00	5.24	QP
2	133.79	11.40	1.28	12.99	25.67	30.00	4.33	QP
3	138.64	11.10	1.35	12.31	24.76	30.00	5.24	QP
4	169.68	9.80	1.49	13.00	24.29	30.00	5.71	QP
5	259.89	13.90	1.90	10.52	26.32	37.00	10.68	QP
6	298.69	13.20	2.23	10.70	26.13	37.00	10.87	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading
 2.The emission level that are 20dB below the official limit are not reported

4.5.2 Frequency Range: Above 1GHz

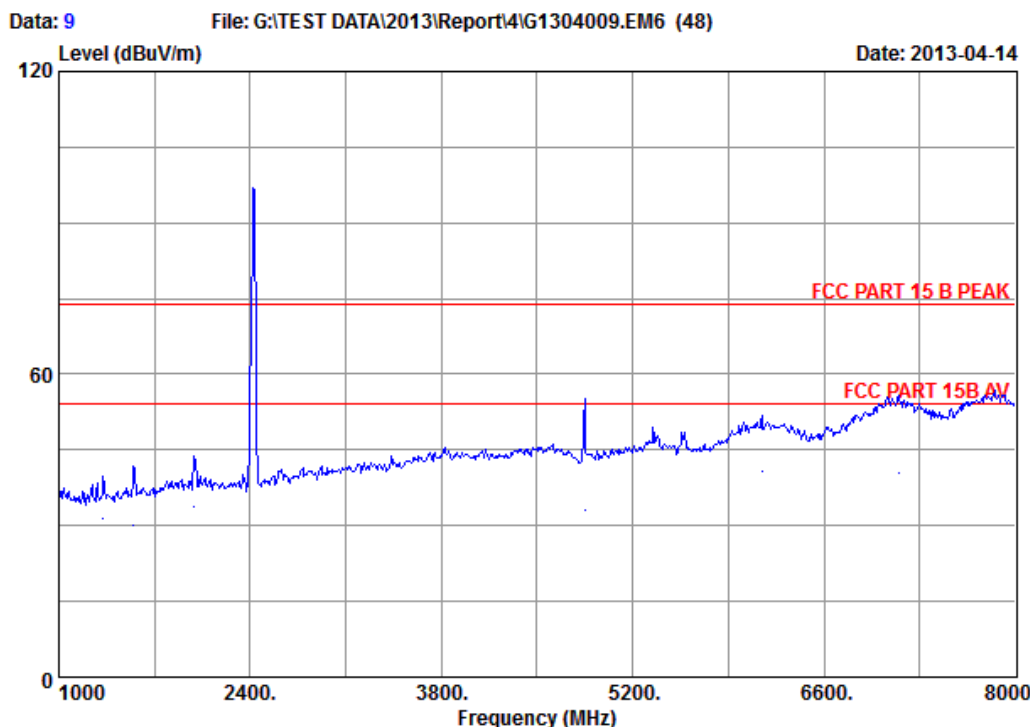
The details of test modes and reference test data are as follows:

Test Date: Apr.14, 2013 Temperature: 22.0°C Humidity: 44` %

Item	Test Condition	USB Cable	Reference Test Data No.	
			Horizontal	Vertical
※1	Test Configuration 1	60 inch	# 9	# 10
2	Test Configuration 2	18 inch	# 11	# 12
3	Test Configuration 3	60 inch	# 13	# 14
4	Test Configuration 4	18 inch	# 15	# 16



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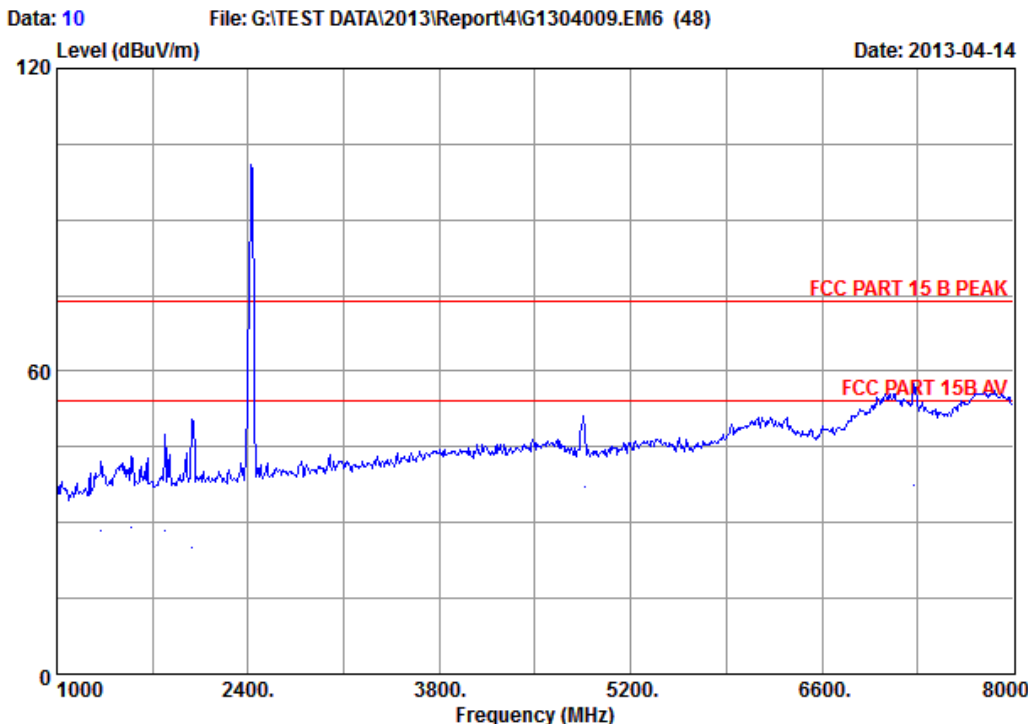
Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 9
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT. : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration1
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1322.00	26.13	7.61	41.73	35.63	39.84	74.00	34.16	Peak
2	1323.06	26.13	7.61	33.21	35.63	31.32	54.00	22.68	Average
3	1546.00	26.53	7.88	42.78	35.41	41.78	74.00	32.22	Peak
4	1548.32	26.53	7.88	31.03	35.38	30.06	54.00	23.94	Average
5	1987.00	28.52	9.04	41.17	34.92	43.81	74.00	30.19	Peak
6	1988.36	28.52	9.04	31.02	34.92	33.66	54.00	20.34	Average
7	2421.00	28.51	10.03	93.28	34.80	97.02	74.00	-23.02	Peak
8	4850.00	34.35	13.80	41.40	34.32	55.23	74.00	18.77	Peak
9	4851.36	34.38	13.80	19.33	34.32	33.19	54.00	20.81	Average
10	6145.00	37.06	16.86	32.59	34.54	51.97	74.00	22.03	Peak
11	6146.32	37.06	16.86	21.35	34.54	40.73	54.00	13.27	Average
12	7146.00	37.97	17.98	33.46	33.71	55.70	74.00	18.30	Peak
13	7147.32	37.97	17.98	18.34	33.71	40.58	54.00	13.42	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported



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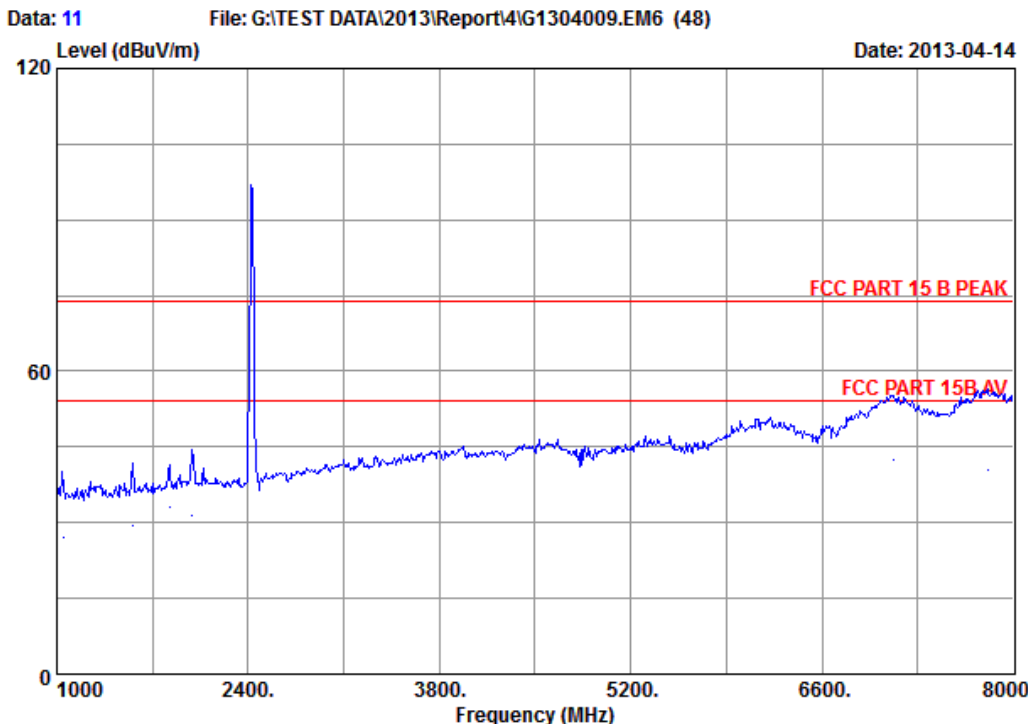
Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 10
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT. : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration1
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1322.00	26.13	7.61	44.11	35.63	42.22	74.00	31.78	Peak
2	1323.32	26.13	7.61	30.32	35.63	28.43	54.00	25.57	Average
3	1546.00	26.53	7.88	44.18	35.41	43.18	74.00	30.82	Peak
4	1547.27	26.53	7.88	30.12	35.41	29.12	54.00	24.88	Average
5	1791.00	27.68	8.63	46.25	35.14	47.42	74.00	26.58	Peak
6	1792.36	27.68	8.63	27.32	35.14	28.49	54.00	25.51	Average
7	1987.00	28.52	9.04	47.74	34.92	50.38	74.00	23.62	Peak
8	1988.33	28.52	9.04	22.33	34.92	24.97	54.00	29.03	Average
9	2421.00	28.51	10.03	97.29	34.80	101.03	74.00	-27.03	Peak
10	4857.00	34.38	13.80	37.28	34.32	51.14	74.00	22.86	Peak
11	4858.33	34.38	13.80	23.25	34.32	37.11	54.00	16.89	Average
12	7272.00	38.26	17.47	35.38	33.63	57.48	74.00	16.52	Peak
13	7273.03	38.26	17.47	15.32	33.63	37.42	54.00	16.58	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported



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Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 11
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT. : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration2
 Memo :

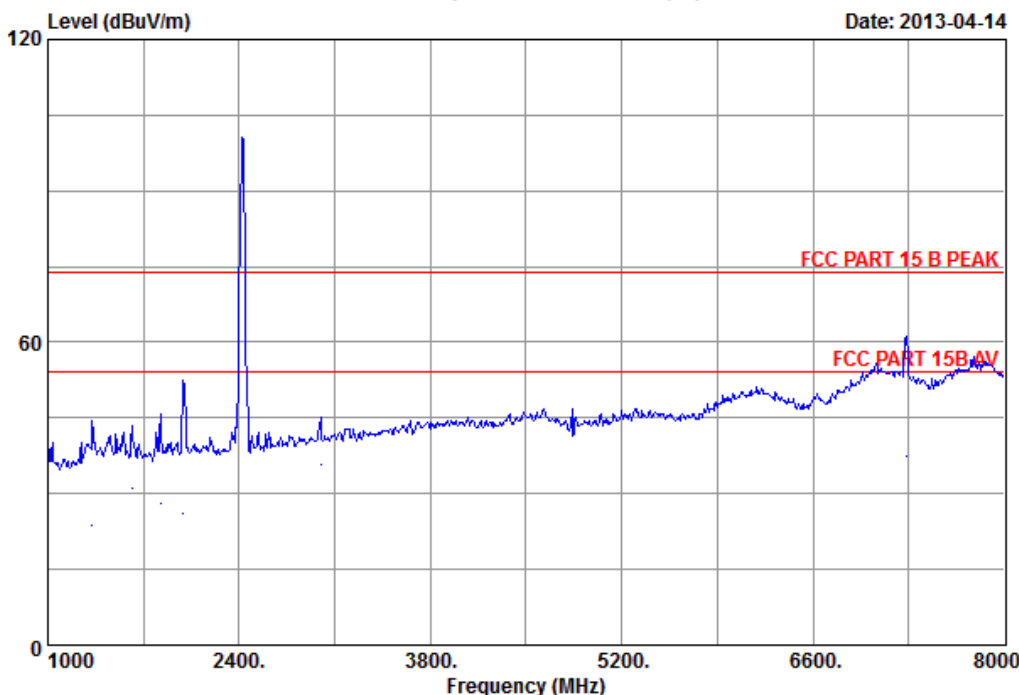
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1042.00	25.83	6.77	43.47	35.93	40.14	74.00	33.86	Peak
2	1043.57	25.85	6.77	30.27	35.93	26.96	54.00	27.04	Average
3	1560.00	26.61	7.88	42.81	35.38	41.92	74.00	32.08	Peak
4	1561.33	26.61	7.88	30.25	35.38	29.36	54.00	24.64	Average
5	1826.00	27.83	8.64	40.16	35.11	41.52	74.00	32.48	Peak
6	1827.33	27.83	8.64	31.59	35.11	32.95	54.00	21.05	Average
7	1987.00	28.52	9.04	41.72	34.92	44.36	74.00	29.64	Peak
8	1988.26	28.52	9.04	28.64	34.92	31.28	54.00	22.72	Average
9	2421.00	28.51	10.03	93.14	34.80	96.88	74.00	-22.88	Peak
10	7125.00	37.89	18.50	32.57	33.72	55.24	74.00	18.76	Peak
11	7126.53	37.89	18.50	19.74	33.72	42.41	54.00	11.59	Average
12	7811.00	38.48	18.82	32.53	33.30	56.53	74.00	17.47	Peak
13	7812.02	38.48	18.82	16.32	33.30	40.32	54.00	13.68	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported



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Data: 12 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48) Date: 2013-04-14



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 12
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT. : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration2
 Memo :

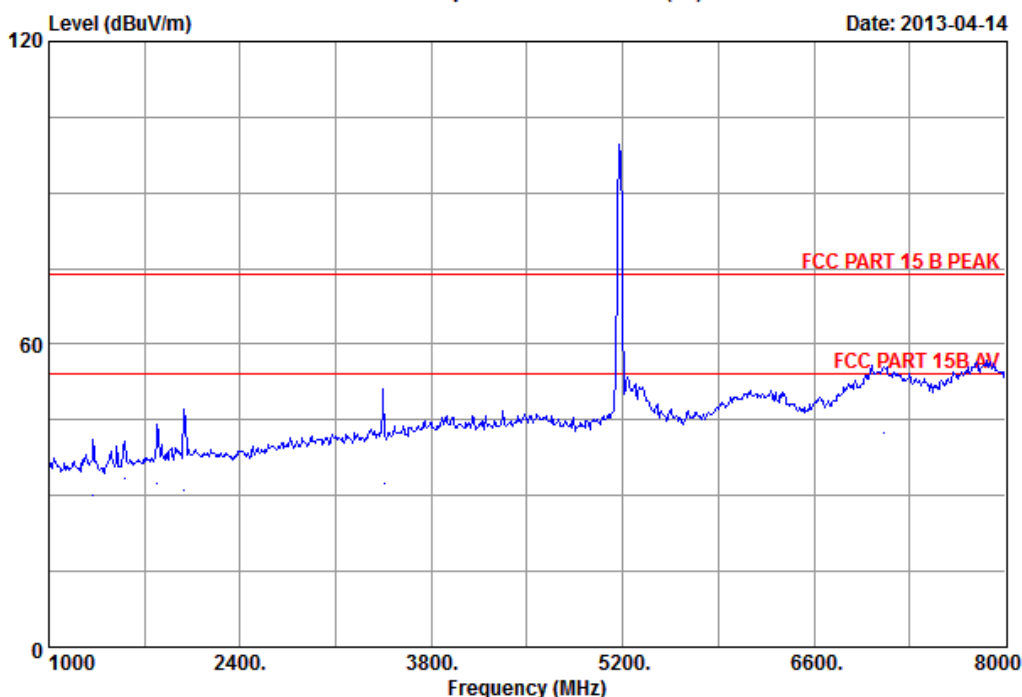
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1322.00	26.13	7.61	46.39	35.63	44.50	74.00	29.50	Peak
2	1324.30	26.13	7.61	25.60	35.63	23.71	54.00	30.29	Average
3	1616.00	26.84	8.28	43.51	35.33	43.30	74.00	30.70	Peak
4	1617.36	26.84	8.28	31.36	35.33	31.15	54.00	22.85	Average
5	1826.00	27.83	8.64	44.37	35.11	45.73	74.00	28.27	Peak
6	1827.36	27.83	8.64	26.61	35.11	27.97	54.00	26.03	Average
7	1987.00	28.52	9.04	50.00	34.92	52.64	74.00	21.36	Peak
8	1988.36	28.52	9.04	23.36	34.92	26.00	54.00	28.00	Average
9	2421.00	28.51	10.03	96.77	34.80	100.51	74.00	-26.51	Peak
10	2995.00	30.53	11.25	38.08	34.65	45.21	74.00	28.79	Peak
11	2996.33	30.53	11.25	28.66	34.65	35.79	54.00	18.21	Average
12	7286.00	38.30	17.47	38.92	33.61	61.08	74.00	12.92	Peak
13	7287.33	38.30	17.47	15.36	33.61	37.52	54.00	16.48	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported



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Data: 13 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 13
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration3
 Memo :

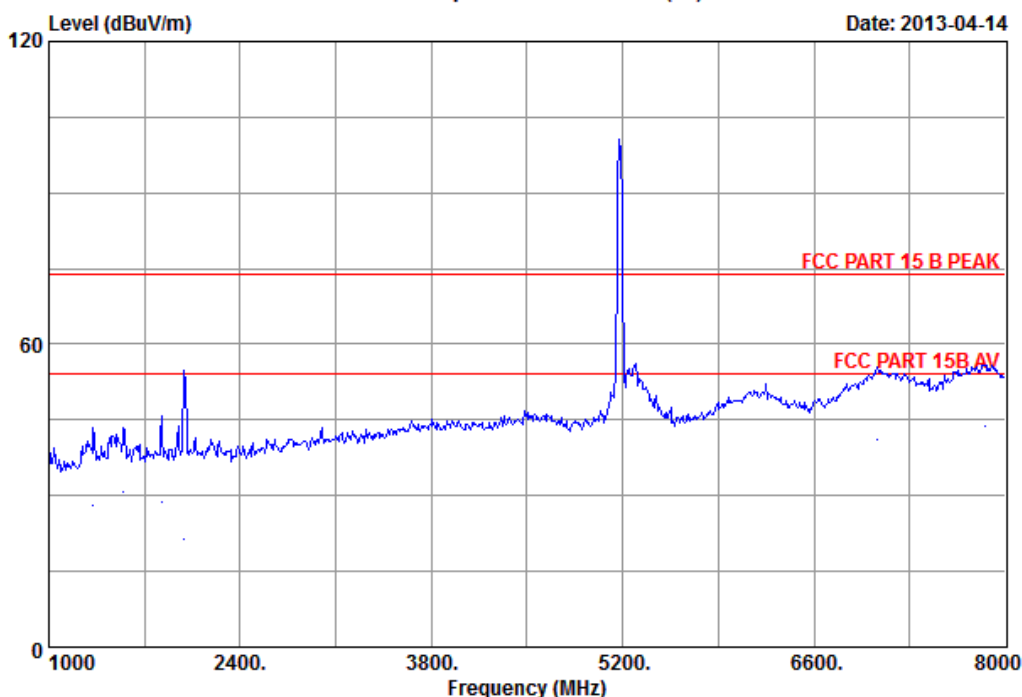
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1322.00	26.13	7.61	43.15	35.63	41.26	74.00	32.74	Peak
2	1323.69	26.13	7.61	32.00	35.63	30.11	54.00	23.89	Average
3	1560.00	26.61	7.88	41.60	35.38	40.71	74.00	33.29	Peak
4	1561.33	26.61	7.88	34.25	35.38	33.36	54.00	20.64	Average
5	1791.00	27.68	8.63	42.91	35.14	44.08	74.00	29.92	Peak
6	1792.68	27.68	8.63	31.26	35.14	32.43	54.00	21.57	Average
7	1987.00	28.52	9.04	44.64	34.92	47.28	74.00	26.72	Peak
8	1988.36	28.52	9.04	28.36	34.92	31.00	54.00	23.00	Average
9	3450.00	31.23	12.22	42.31	34.54	51.22	74.00	22.78	Peak
10	3451.36	31.23	12.22	23.59	34.54	32.50	54.00	21.50	Average
11	5172.00	34.70	14.67	84.47	34.38	99.46	74.00	-25.46	Peak
12	7111.00	37.85	18.50	32.80	33.72	55.43	74.00	18.57	Peak
13	7112.37	37.89	18.50	19.65	33.72	42.32	54.00	11.68	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported



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Data: 14 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



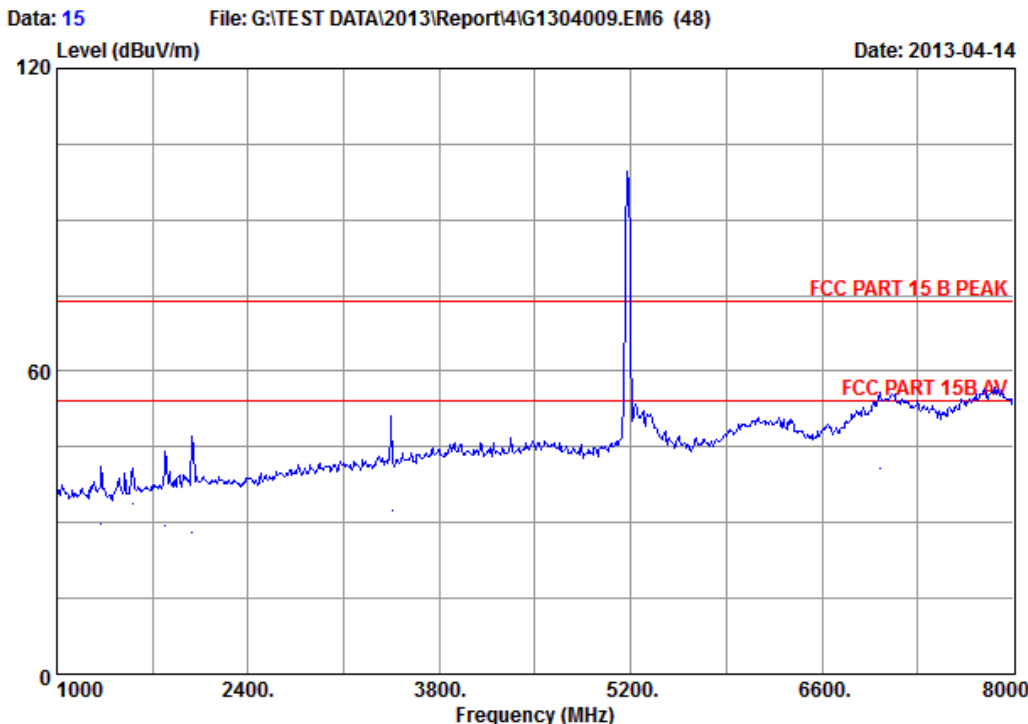
Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 14
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT. : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration3
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1322.00	26.13	7.61	45.46	35.63	43.57	74.00	30.43	Peak
2	1323.69	26.13	7.61	29.81	35.63	27.92	54.00	26.08	Average
3	1546.00	26.53	7.88	44.59	35.41	43.59	74.00	30.41	Peak
4	1547.36	26.53	7.88	31.65	35.41	30.65	54.00	23.35	Average
5	1826.00	27.83	8.64	44.56	35.11	45.92	74.00	28.08	Peak
6	1827.36	27.83	8.64	27.27	35.11	28.63	54.00	25.37	Average
7	1987.00	28.52	9.04	52.15	34.92	54.79	74.00	19.21	Peak
8	1988.20	28.52	9.04	18.66	34.92	21.30	54.00	32.70	Average
9	5172.00	34.70	14.67	85.71	34.38	100.70	74.00	-26.70	Peak
10	7062.00	37.77	17.94	33.43	33.75	55.39	74.00	18.61	Peak
11	7063.22	37.77	17.94	19.31	33.75	41.27	54.00	12.73	Average
12	7846.00	38.45	19.87	30.77	33.28	55.81	74.00	18.19	Peak
13	7847.33	38.45	19.87	18.65	33.26	43.71	54.00	10.29	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported



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Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 15
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT. : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration4
 Memo :

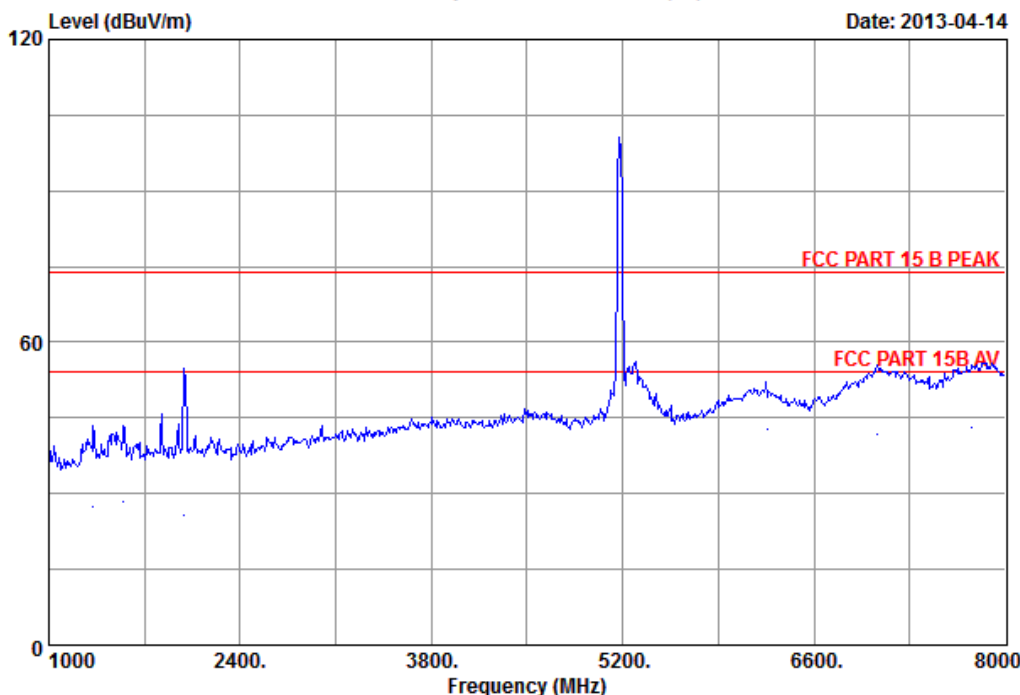
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1322.00	26.13	7.61	43.15	35.63	41.26	74.00	32.74	Peak
2	1323.24	26.13	7.61	31.69	35.63	29.80	54.00	24.20	Average
3	1560.00	26.61	7.88	41.60	35.38	40.71	74.00	33.29	Peak
4	1561.29	26.61	7.88	34.65	35.38	33.76	54.00	20.24	Average
5	1791.00	27.68	8.63	42.91	35.14	44.08	74.00	29.92	Peak
6	1792.32	27.68	8.63	28.26	35.14	29.43	54.00	24.57	Average
7	1987.00	28.52	9.04	44.64	34.92	47.28	74.00	26.72	Peak
8	1988.36	28.52	9.04	25.32	34.92	27.96	54.00	26.04	Average
9	3450.00	31.23	12.22	42.31	34.54	51.22	74.00	22.78	Peak
10	3453.26	31.23	12.22	23.66	34.54	32.57	54.00	21.43	Average
11	5172.00	34.70	14.67	84.47	34.38	99.46	74.00	-25.46	Peak
12	7020.00	37.64	17.63	34.26	33.78	55.75	74.00	18.25	Peak
13	7021.32	37.64	17.63	19.33	33.78	40.82	54.00	13.18	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported



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Data: 16 File: G:\TEST DATA\2013\Report4\G1304009.EM6 (48)



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 16
 Dis./Ant. : 3m 3115(62593)-1205 Ant.pol : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
 EUT. : TI-nspire CX navigator access point
 M/N : TINAVAP3-2
 Power Rating : 120Vac/60Hz
 Test Mode : Configuration4
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1322.00	26.13	7.61	45.46	35.63	43.57	74.00	30.43	Peak
2	1324.26	26.13	7.61	29.32	35.63	27.43	54.00	26.57	Average
3	1546.00	26.53	7.88	44.59	35.41	43.59	74.00	30.41	Peak
4	1547.33	26.53	7.88	29.35	35.41	28.35	54.00	25.65	Average
5	1987.00	28.52	9.04	52.15	34.92	54.79	74.00	19.21	Peak
6	1988.33	28.52	9.04	23.21	34.92	25.85	54.00	28.15	Average
7	5172.00	34.70	14.67	85.71	34.38	100.70	74.00	-26.70	Peak
8	6250.00	37.10	16.84	32.52	34.45	52.01	74.00	21.99	Peak
9	6253.32	37.10	16.84	23.21	34.45	42.70	54.00	11.30	Average
10	7062.00	37.77	17.94	33.43	33.75	55.39	74.00	18.61	Peak
11	7063.36	37.77	17.94	19.66	33.75	41.62	54.00	12.38	Average
12	7755.00	38.55	18.69	31.53	33.33	55.44	74.00	18.56	Peak
13	7756.32	38.55	18.69	19.33	33.33	43.24	54.00	10.76	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp
 2.The emission level that are 20dB below the official limit are not reported

5 DEVIATION TO TEST SPECIFICATIONS

【NONE】